

Claims

1. Tear-off device for sections (46) of a continuous material (18) with a pullout mechanism (10) for the transport of the continuous material (18) and with a tear-off mechanism (12), which has at least two pressure-applying elements (24, 26, 70), which are disposed on two opposite sides of the continuous material (18) and of which at least one can be engaged against the continuous material (18) by means of a positioning device, characterized in that the positioning device has at least one motor (42; 49; 60) and a control device (43) for the temporal control of the motor (42; 49; 60), with which the pressure-applying elements (24; 26; 70) can be engaged at a controllable point in time.

2. The tear-off device of claim 1, characterized in that the motor is a servomotor (42; 60).

3. The tear-off device of one of the preceding claims, characterized in that the pullout mechanism (10) and the tear-off mechanism (12) each have their own driving mechanism (22).

4. The tear-off device of one of the preceding claims, characterized in that the control device (43) is a programmable control device, with which the points in time of the engaging and/or withdrawal movements can be adjusted in relation to the transport of the continuous sheet (18).

5. The tear-off device of one of the claims 1 to 4, characterized in that the pressure-applying elements (24, 26), disposed on either side of the continuous sheet (18), each are mounted in pivoted arms (28), which are connected over at least one tie bar or ram bar (34; 36) with the positioning device.

6. The tear-off device of claim 5, characterized in that the pivoted arms (28) are connected on either side of the continuous material (18) with a coupling linkage (34, 37, 40, 36), so that they can be pivoted synchronously.

7. The tear-off device of claims 5 or 6, characterized in that the positioning device has at least one shaft (40), which is driven by the at least one motor (42) and by which the at least one tie bar or ram bar (34; 36) can be driven in the form of a connecting rod.

8. The tear-off device of one or the claims 1 to 4, characterized in that the adjustable pressure-applying elements (24; 26) are pressure-applying rollers, which are mounted in each case rotatably on an eccentric (54) and that the eccentrics (54) can be driven individually or jointly by the motors (60) or the motor (60) of the positioning device.

9. The tear-off device of claim 8, characterized in that at least one of the pressure-applying elements (24; 26) is mounted so that it can be shifted by means of at least one second motor (76) essentially perpendicularly to the continuous sheet (18).

10. The tear-off device of one of the claims 1 to 4, characterized in that the adjustable pressure-applying elements (70) in each case have roll segments, which are mounted rotatably and can be driven individually or jointly by the motors (60) or the motor (60) of the positioning device.

11. The tear-off device of claim 10, characterized in that at least one of the pressure-applying elements (70) is mounted so that it can be shifted by means of at least one second motor (76) essentially perpendicularly to the continuous material (18).

12. The tear-off device of one of the claims 1 to 9, characterized in that the at least one motor (42; 49; 60) of the positioning device can be driven over a limited traversing distance in opposite directions and the adjusting movements of the motor (42; 49; 60) can be controlled with respect to time by the control device (43).

13. The tear-off device of one of the claims 4 and 12, characterized in that the traversing distance of the motor (42; 49; 60) is programmable.

14. The tear-off device of one of the claims 12 or 13, characterized in that the at least one motor (49) is a linear motor.

15. The tear-off device of one of the claims 1 to 11, characterized in that the at least one motor (43; 60) can be driven to rotate with a variable speed in one direction of rotation.

16. The tear-off device of claim 15, characterized in that the speed of the motor (42; 60) can be varied down to zero.